



DURABERG

Aesthetics as well as protection are the key features of modern construction. These aspects are built in Berger's DURABERG range of powder coatings.

To extend the support in the growing sustainable architectural market globally, Berger Paints India Ltd. has come up with new ranges of Durable Polyester Powder Coatings. The products are designed for both interior and exterior applications. All 'DURABERG' products are supported by Berger Paints' warranty when applied by Duraberg approved applicator and following Berger recommended application methodology**.

Berger offers two series of products in DURABERG. D5000 Series and SD10000 Series have warranties for 5 years and 10 years respectively.

TECHNICAL ATTRIBUTES

Parameters	D5000 Series	SD10000 Series				
Chemistry	Durable Polyester	Super Durable Polyester				
Aesthetics / finish	Available in Glossy, Semi-glossy, Matt, Texture, Metallic finishes					
Specification	As per Technical Data Sheet	Meets Qualicoat Class 1* AAMA 2603*				
Weathering performance	600 – 800 hours Xenon Arc	1 year natural weathering				
Warranty	5 Years	10 Years				
Recommendation & Application	Indoor & Out door applications Residential Constructions, Office partitions	Indoor & Out door applications High-end Residential & Commercial constructions.				
Compliance	RoHS compliant, VOC-free odourless coatings system.					
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Technology Institute in Mumbai; complying to Qualicoat & AAMA Technical Specifications.

SUBSTRATE & APPLICATION DETAILS

SUBSTRATES & SURFACE PREPARATION:

a. Substrates:

 Powder coating to apply on 0.8 or 1 mm thick AlMg1- semi hard substrate to conduct mechanical and long term.

Note: The chemical composition of the samples has an influence on the final results, especially in corrosion tests.

b. Surface Preparation:

- As per PT supplier's guidelines, the parameters like pointage etc. of each pre-treatment bath should be maintained scientifically on daily basis to get uniform surface preparation and excellent product performance.
- The substrates must be thoroughly clean, free from grease, oil, rust, mill scale or any other foreign contaminations. Cleaning may be carried out either by shot blasting or solvent or chemical degreasing and followed by to conduct Chromatization process.
- The recommended coating weight is 0.4 1.0 gm/sq. meter or follow the PT supplier's recommendation.
- After that those pre-treated substrates have to be dried ideally to remove water, moisture prior to powder coating.
- The pre-treated substrates should be coated immediately or stored at dry areas for minimum time span (max. 3 5 hours after pre-treatment process).

APPLICATION GUIDELINES:

a. Application of Powder Coating:

DURABERG products can be applied by Corona electrostatic equipment. We recommend the following.

- Substrates should be grounded properly with zig/hangers
- Voltage and Current should be set in between 45 90 kV & 10 30 µA respectively based on powder coatings e.g., solid colours, metallic shades etc.
- Distance between gun & profiles should be 15 to 25 cm or it depends up on the profiles' geometry.
- To use flat jet spray nozzles or as required by the shape & geometry of the profiles.
- Direct powder application from carton is not recommended, the powder should be charged into a fluidization hopper to get proper powder fluidity.

b. Baking/Curing of Powder coating:

Types of Oven: Electric, Gas or Diesel fired oven

- Gas or Diesel fired ovens must be constructed along with Heat Exchanger, fan to have uniformity of inside temperature.
- Coated profiles have to be cured as per recommended baking schedule.
- Travel Temperature Recorder (TTR) should be carried out quarterly to maintain the ideal oven profile.

COLOUR AVAILABILITY

Apart from the shades available in the shade card, we can offer the entire series in RAL, NCS, Pantone, IS etc. Customization in shades available on request.

^{**}Application Methodology includes suitable surface preparation followed by recommended DURABERG application procedures



Semi Glossy RAL 9003	579	Matt RAL 9016	057	Semi Glossy RAL 9016	067	Texture RAL 9016	AW1
Semi Glossy RAL 9010	577	Matt RAL 9010	056	Semi Glossy RAL 9001	069	Semi Glossy RAL 9002	393
Semi Glossy RAL 9018	564	Semi Glossy RAL 7035	359	Semi Glossy RAL 1013	117	Semi Glossy RAL 7038	518
Semi Glossy RAL 7032	383	Texture RAL 7032	384	Semi Glossy RAL 7044	519	Semi Glossy RAL 7001	AV4
Semi Glossy RAL 7004	AW2	Texture RAL 7004	AV2	Semi Glossy Met RAL 9006	113	Semi Glossy RAL 7040	572
Semi Glossy RAL 7030	431	Semi Glossy RAL 7036	AV9	Semi Glossy RAL 7033	497	Semi Glossy Met RAL 9007	081
Texture RAL 7011	AV7	Semi Glossy RAL 7011	AV6	Semi Glossy RAL 7012	AV8	Semi Glossy RAL 7043	385





SAFETY & STORAGE CONDITION

- a. Safety Precaution: This is for Industrial use only, kindly go through the MSDS of individual products.
- b. Storage Condition: Keep in cool & dry condition below 25°C & 50% relative humidity ideally.

Disclaimer: This shade card is indication of shade only. Hence it is better & recommended to consider fresh powder coated panels for actual colour & finish assessment.

Product Performance Report of DURABERG SD10000 Series Powder Coatings as per Qualicoat Class 1 Specification

PARAMETERS	STANDARD	SPECIFICATION	DURABERG PURE POLYESTER GLOSSY PRODUCTS	DURABERG PURE POLYESTER MATT PRODUCTS	
Substrate	Qualicoat	AIMg1 – semi hard of thickness of 0.8 - 1 mm.	On 0.8 mm thick Panel	On 0.8 mm thick Panel	
Gloss	ISO 2813/ ASTM 523	> 70 GU for Glossy < 30 GU for Matt	83 ± 10 GU	24 ± 5 GU	
Coating thickness (mic)	ISO 2360/ ASTM 1186	60 - 80 micn	65 ± 5 μm	65 ± 5 μm	
Dry adhesion	ISO 2409/ ASTM D 3359	GT = 0	Passes	Passes	
Buchholz indentation	ISO 2815	Minimum 80 mm on required thickness.	Passes	Passes	
Cupping test	ISO 1520/ ASTM 643	5 mm to pass	Passes	Passes	
Flexibility / bend test	ISO 1519/ ASTM D522	5 mm to pass	Passes	Passes	
Impact test	ISO 6272/ ASTM D2794	25 - 30 Kg.Cm to pass	Passes	Passes	
Polymerisation test - xylene		No softness, gloss reduction, after immediate test and 30 min.	Passes	Passes	
Resistance to humid atmospheres	ISO 3231	1000 hours to pass	Passes	Passes	
Acetic acid salt spray resistance	ISO 9227	1000 hours to pass	Passes	Passes	
Accelerated weathering test (1000 hours xenon arc test)	ISO 16474-2/ ASTM 7869	50% gloss retention after 1000 hours to pass	Passes - More than 80% gloss retention.	Passes - More than 80% gloss retention.	
Resistance to mortar	EN 12206-1 par. 5.9/ ASTM C207	Mortar should be removed easily without leaving any residues after 24 hours. No mechanical damage to the organic coating caused by grains of sand.	Passes	Passes	
Resistance to boiling water		On visual inspection, there shall be no sign of detachment or blistering after 2 hours. Some colour change is acceptable.	Passes	Passes	
Constant climate condensation water test	ISO 6270	Humidity test - 1000 hours	Passes	Passes	
Natural weathering test	ISO 2810	50% gloss retention after 12 months	Panels - More than 70% Gloss retention.	Panels - More than 75% Gloss retention.	

Comments - The products of Berger DURABERG SD10000 Glossy, Matt and also Semi Glossy series meet as per Qualicoat Class 1 Specification.





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